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FIG 1

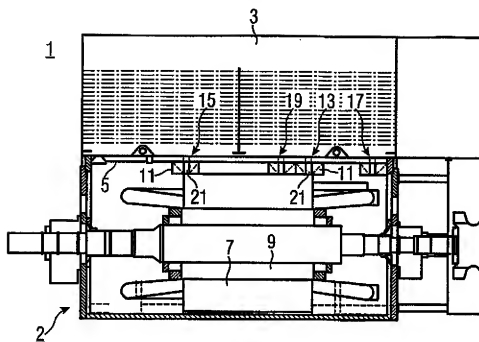
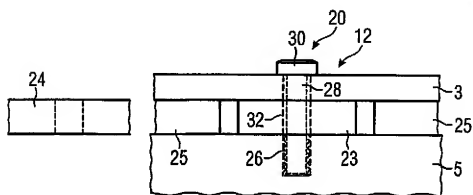


FIG 2



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FIG 3

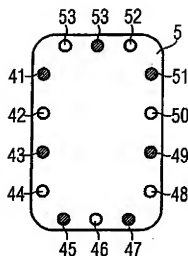
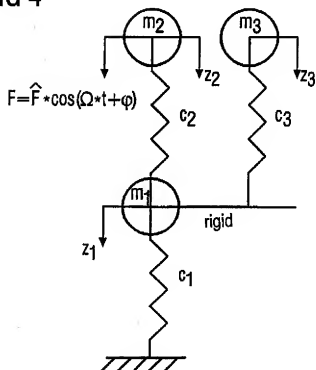


FIG 4



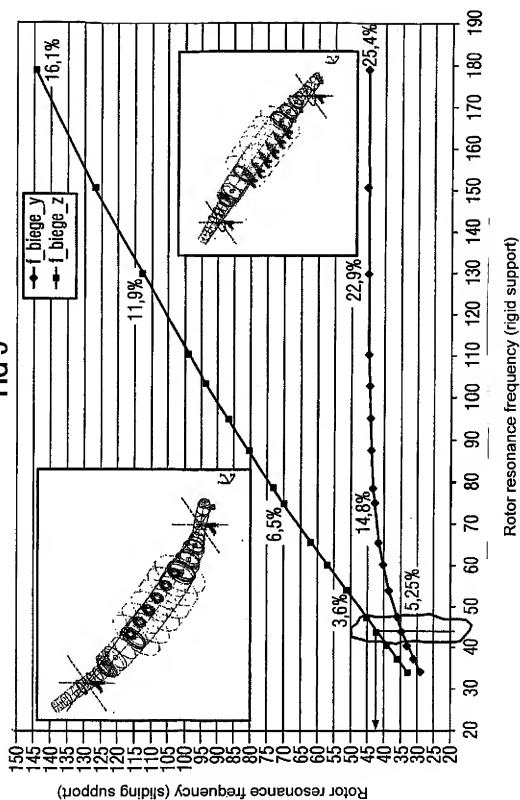
At e.g. Unbalance excitation

$$\hat{F} = m_2 * \varepsilon * \Omega^2 \quad \text{with } \varepsilon: \text{Rotor eccentricity}$$

$$\Rightarrow c_2 = (f_{\text{biege}_z} * 2 * \pi)^2 * m_2$$

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FIG 5



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FIG 6

